

BA 2820 - Image Editing & Enhancement

3 Credits, 45 Hours (0-3-0)

Instructor:

Bruce Macdonald

Office: C302

Telephone: 539-2016(w)
402-8583(h)

E-Mail: bmacdonald@gprc.ab.ca

Website: dotCollege.com

Classroom:

A313

Times:

Tues. & Thurs. 13:00 - 14:20

CALENDAR DESCRIPTION:

This course is a theoretical and practical introduction to digital imaging. It begins with a theoretical module on light, colour concepts, colour models, image compression formats, and graphic composition. The second module involves the practical application of camera basics and the principles of photography. The third module involves the use of image editing software to prepare compositions for publication on the World Wide Web.

PREREQUISITES:

BA 1150 or an equivalent introductory computer course. Second year standing, and a good working familiarity with the internet is also recommended.

GENERAL OBJECTIVES:

Upon exit the student will be able to:

1. acquire, edit, and display digital images for use in creating effective web sites.
 2. apply the concepts of graphic design.
 3. apply the basic principles of photography.
 4. apply image editing software to repair, enhance, and compress digital images.
 5. create simple web animations.
-

RESOURCE MATERIALS:

There is no textbook required for this course. However, the following book is recommended and will be used for our photography module. The college bookstore was not able to get it this year. But it is currently on sale at amazon.ca for \$28.00. It is also listed at chapters.ca.

Burian, P.K. and R. Caputo, 2000. *National Geographic Photography Field Guide: secrets to making great pictures..* ISBN 0-7922-7498-9

Parts of the course will be supplemented with handouts and readings will be assigned from online sources, such as:

- [Apogee Photo](#) - An Internet photography magazine
 - [Kodak](#) - Kodak publishes tips for taking great pictures
-

DELIVERY MODE:

The course is delivered live in computer lab A313 in the fall semester and lecture notes will be posted online at <http://dotcollege.com>. The content is divided into three modules. At the end of each module, there will be an assignment due, and an online test.

COURSE CONTENT:

Module 1 - Basic Computer Imaging Concepts

- | | |
|-----|---|
| 1.1 | Terms and Concepts |
| 1.2 | Colour Concepts and Models |
| 1.3 | The Hexadecimal Colour Numbering System |
| 1.4 | Image Compression |
| 1.5 | Image Formats for the Web |
| 1.6 | Basic Graphic Design Concepts |

Module 2 - Photography

- | | |
|-----|-------------------------|
| 2.1 | Basic Concepts of Light |
| 2.2 | Filmspeed |
| 2.3 | Depth of Field |

Module 3 - Image Editing Software

- | | |
|-----|---------------------------------|
| 3.1 | Cropping and Selection Tools |
| 3.2 | The Canvas |
| 3.3 | Creating a Vignette |
| 3.4 | Buttons, Gradients and Filters |
| 3.5 | Text Features |
| 3.6 | Brightness and Saturation Tools |
| 3.7 | GIF Animation |
| 3.8 | Vector Animation |
-

GRADING SYSTEM

GPRC uses the alpha grading system as explained on page 33 of the College calendar. On a percentage basis you will be assessed as follows:

Module 1	Photo Composition Assignment	10
	Module Test	20
Module 2	Camera Techniques Assignment	10
	Module Test	20
Module 3	Image Editing Assignment	20
	Module Test	20
TOTAL		100

I will translate your percentage score into a letter grade as follows:

Weighted Average %	Letter Grade
94 - 100	A+
90 - 93	A
85 - 89	A-
80 - 84	B+
76 - 79	B
72 - 75	B-
68 - 71	C+
64 - 67	C
60 - 63	C-
55 - 59	D+
50 - 54	D
0 - 49	F